

# Exhibit A

## Scope of Services

### American Tobacco District Water Line Replacement Project

The Scope of Services requested consists of preliminary engineering services for the ATD Water Line Replacement Project and design phase services for the Durham Police Station waterline replacement (Additional Survey Area as shown on **Figure 1**, which is attached to this Exhibit A).

#### **Task 1 – Preliminary Engineering Services**

##### A. Preliminary Engineering - Lump Sum

1. Schedule and conduct a project kickoff meeting with DWM upon receipt of Notice to Proceed. The meeting shall include:
  - a. Review of key project objectives.
  - b. Review of overall work plan and anticipated project schedules.
  - c. Set dates for progress meetings and workshops.
  - d. Identify known stakeholders and begin discussions and development of the overall public outreach plan.
2. Complete desktop data collection to obtain available data relative to the study area. These efforts will include coordination with City and third party agencies and are anticipated to include the following data and activities:
  - a. Available as-builts/electronic records of existing water mains.
  - b. Publicly available and Owner provided GIS data for the area
  - c. Available valve card information for all water mains.
  - d. Review of Durham Station project utility upgrade extents
  - e. Investigation of age and condition of waterlines in Blackwell and Julian Carr streets with records research and hydrant tests.
  - f. Review proposed development plans within the area including anticipated water usage to aid with routing and sizing.
  - g. Identify potential redevelopment areas and projected uses
  - h. Review Triangle Transit Authority / Go Triangle construction implications and known plans such as elimination of lines from Pettigrew Street and the proposed light rail station near Vivian Street.
  - i. Review Cityworks work order information.
  - j. NCDOT planning and right-of-way information.
  - k. Available private utility mapping
3. Coordinate data collection and routing efforts with the East-West Reinforcing Main project.
4. Provide meter and valve assessments along all corridors within the ATD study area. These assessments shall include working closely with DWM operations staff to verify valve operational status, and ability for valves to isolate flow in the field. The team will also note consistency with existing valve cards along with inventories of meter locations, meter sizes, and meter and box types. A database for both existing valves and meters will be provided for final

documentation.

5. Review project area with appropriate operations staff via a formal workshop to identify known problem areas relating to materials, soil conditions, and other maintenance/service difficulties. This workshop can also provide the venue to gather operations preferences and verify project extents based on their historical and institutional knowledge.
6. Coordinate with private utility companies (i.e. power, gas, communications) for both existing facilities within the project corridors as well as known future facilities and upgrades. Such activities will involve individual entity communications and an overall coordination meeting.
7. Initiate Level B location of existing subsurface utilities within the study area. Utilities will be located via non-destructive inductive current methods and ground penetrating radar. Utilities will be designated by "painting" the mains within the corridor consistent with standard color designations (i.e. green for sewer, blue for water, etc.).
8. Begin full right-of-way planimetric survey for the study area to inform the route decisions provided in the PER. The survey will include location of all surface features within the study area including, but not limited to, edge of pavement, curb lines, power poles, signs, driveways, sidewalks, overhead power and communication, lane striping, building outlines, etc. Additionally storm and sanitary sewer mains will be surveyed with material, inverts, size, and manhole information provided. Water main valve nut elevations will be provided as well. Topographic information will be provided for the entire study area for use during final design. Datum for surveys will be consistent with Downtown Loop project.
9. Provide a limited environmental screening consisting of database review and orphan site screening of the ATD study area to identify areas of environmental concern. This task will involve a limited database investigation to document known environmental conditions and is not intended to be a Phase I Environmental Site Assessment. Documented sites or incidents along the corridors that may impede the safe operation/construction and/or compromise the integrity of the newly installed utility will be noted. Findings will be utilized to provide appropriate design decisions and cost projections.
10. Investigate the potential for rehabilitation of existing mains within the ATD area. This work will include discussion of potential methods such as pipe bursting and cured-in-place-pipe for water main rehabilitation. This task will also include identification of potential locations for inclusion of rehabilitation into the ATD project where lower risk/disturbance is allowed for purposes of a potential pilot study area.
11. Develop a proposed construction schedule for the ATD project based on the scope of the project, the proposed routes developed during preliminary design, and institutional knowledge gained from Downtown Loop construction.
12. Provide assessment and incorporation of water modeling results for the ATD study area into the proposed PER. Modeling will be performed under the East West Reinforcing Main project.
13. Develop viable traffic control concepts for all corridors within the ATD area (i.e. lane closure, full closure with detour, and on street parking status). This task will include collecting existing traffic volumes for major roadways within the

construction area and will include peak periods associated with local events as well as handicap ramp replacement reviews within the corridors. Locations requiring night and/or weekend construction will be identified based on preliminary layouts.

14. Utilizing collected data, in addition to survey and SUE data, determine most feasible locations and methods of installation for proposed mains along all corridors within the ATD study area. Routings will take into account location of existing utilities, the replacement limits of the Downtown Loop Waterline Replacement project, impacts to traffic, and maintenance of service during construction, as well as general constructability.
15. Develop an opinion of probable construction cost for the ATD project. Opinions of cost shall be provided with a contingency of 15% to account for unknowns at this stage of project development.
16. Develop a list of required permits that would be anticipated for construction of the ATD project. List shall include agency, permit required, and contact information where available.
17. Provide one progress review meeting during the preliminary design phase to present preliminary findings and to solicit feedback from DWM prior to drafting the PER.
18. The Engineer shall develop a Preliminary Engineering Report to document and compile information and decisions made during the ATD preliminary engineering phase. The development of the PER is anticipated to include the following.
19. Develop a draft Preliminary Engineering Report (PER). The PER shall include detailed discussion of the process utilized for determination of the final recommended routing including all collected information regarding the existing water mains, suggestions for rehabilitation options, opinions of probable costs, estimated construction schedules, traffic control concepts, required permits, and a final recommendation for the pipeline routing suitable for commencement of design. Preliminary drawings will be provided as needed to present alternative routes. Five (5) hard copies will be provided for comment.
20. Provide two (2) "PER Review" workshops to review the information and options presented in the draft PER with DWM operations and engineering staff. The workshops will consist of a multimedia presentation of the material to be covered with interactive discussions.
21. A final draft will be provided which incorporates comments received by the City during a formal review as well as comments received at the "PER Review" Workshops. Up to ten (10) hard copies will be provided as well as electronic copies on CD. The team will also assist DWM staff with their presentation of the final version of the report to City managerial staff and elected officials if requested.
22. Sanitary Sewer Review
  - a. CCTV with PACP coding will be obtained and reviewed for approximately 1,500 LF of existing 10-inch sanitary sewer along Roxboro Street between Dillard Ave and Lakewood Drive.
  - b. Existing pipe and/or manhole condition deficiencies for the reviewed area will be identified.

- c. Using flow data provided by the City and proposed development plans tributary to this sewer run, current and future capacity concerns will be identified.
- d. Based on condition and/or capacity concerns, a recommendation for sewer improvements in this corridor will be provided.

**B. Public Involvement - Cost Plus Max**

- 1. Prepare a public outreach plan given that this project will be considered a “major or special” City project that will require more than the standard City outreach procedures. The plan will document the contacts and protocols for communicating project activities during all phases of the project. The plan will be adaptive as the project progresses with initial planned included entities to be the City (both DWM and other departments), general concerned members of the public, business and property groups, and regulatory agencies. The plan will be drafted in memo/outline format with close coordination with the Public Affairs Office and submitted to DWM for review and approval. The project will address steps to be taken during activities including initial data gathering, design and concept developments, and the construction phases of the project.
- 2. Identify and meet with major stakeholders within the ATD study area which will impact the design and construction schedule for the project as a whole including DPAC, DBAP, American Tobacco, etc. Provide documentation of discussions and schedules collected during preliminary design.
- 3. Prepare and distribute/mail notification letters and door hangers for advising the public of data gathering activities such as survey and SUE services. Distribution is expected to coincide with early stages outreach including door to door visits and meetings. Door hangers will be distributed at least seven days in advance of any invasive data gathering activities (i.e. survey, SUE, or geotech). New letters will be distributed with each activity if they are not slated to occur during the same timeframe. Letters will be sent by certified mail.
- 4. Coordination with various City departments, including DWM, Public Works, Transportation, and General Services regarding the anticipated project impacts and project overlap with proposed / ongoing activities in the project vicinity.

**Task 2 – Durham Police Station Waterline Replacement Final Design Services**

**A. Final Design - Lump Sum**

- 1. Design Phase Milestones:
  - a. Prepare and hold regularly scheduled design progress and coordination meetings with the Client. These meetings will keep the Client up-to-date on the project’s progress, addressing questions or areas of concern and minimizing the potential for delays from subsequent changes. Meetings will be held prior to beginning design and with the 50, 90 and 100% design development submittals. Design development submittals and an opinion of probably construction cost (OPCC) will be provided one (1) week prior to scheduled meetings. Progress drawings will be provided to the Client in electronic format (PDF). Two hard copies of each progress deliverable will be provided to the Client if requested.

- b. Prepare a design and construction schedule and update the schedule throughout the design and bidding phases coinciding with 50, 90, and 100% submittals.

2. Contract Documents

- a. Prepare and furnish sets of Contract Documents (Drawings and Specifications) in such quantities as may be required for submission to the City's Dept. of Public Works, City's Dept. of Transportation, state and federal regulatory agencies and other applicable review authorities, and three (3) full sets for the City's Dept. of Water Management use.
- b. The plans will consist of 24"x36" sheets with applicable plan and profile views, notes and details using AutoCAD Civil 3D software. Plan and profile drawings will be prepared at 20-ft horizontal/4-ft vertical scale given the congested nature of the project areas.
- c. Utilizing the existing Downtown Loop Waterline Replacement Project Contract, prepare change order documentation to incorporate the design into the existing construction contract. Geotechnical and SUE information will be included as an appendix to the specifications for Contractors information.
- d. Prepare and include in the Contract Documents a "Special Conditions" section of the technical specifications. This section will include requirements unique to this project area, including allowable work hours, construction phasing requirements, coordination requirements for major and anticipated events, public coordination requirements, and emergency work coordination protocols during unforeseen events.

3. Project Specific Notes/Activities

- a. Provide annotations on the plans for sidewalks and handicap ramps to be replaced for ADA compliance as a result of edge to edge repaving. It is anticipated that the areas will be updated utilizing standard details as opposed to detailed individual designs at each location. *[No site plan development allowance is included for this task. If required, this can be performed as an Additional Service.]*
- b. Develop specific water disruption plans for major facilities in the project area.

B. Traffic / Pedestrian Control Plans – Lump Sum

- 1. Perform the design of a detailed set of Traffic Control Plans (TCP) for all phases of the construction in the area where the actual waterline construction will occur.
- 2. Perform the design of a detailed set of "pedestrian" and "business access and parking" plans for all phases of the construction in the area where the actual waterline construction will occur and restrict access.
- 3. Develop and incorporate into the traffic/pedestrian control plans specific event management requirements for major events at DPAC, DBPA, and American Tobacco venues.
- 4. Develop an overall TCP concept map color coding anticipated construction conditions.

C. Regulatory Permitting – Lump Sum

1. Prepare and submit construction documents and permit applications to NCDOT, NCDENR–Land Quality, NCRR, the City of Durham–Department of Public Works, the City of Durham Department of Transportation, and the City Historical Certificate of Appropriateness for review and approval. The City of Durham Department of Transportation will review and approve the Traffic Control Plans in addition to NCDOT approval (where required). *[Kimley-Horn will also produce signed and sealed final Drawings for the Transportation Management Plan to be included as part of the NCDOT Encroachment Agreement submittal that will be required for this project.]*
  2. Complete the final design incorporating comments from the City and other federal, state and local regulatory agencies.
- D. Traffic / Event Management - Cost Plus Max
1. Perform required traffic modeling of affected major streets, including Main Street, Dillard Street, Elizabeth Street, Fayetteville Street, and Ramseur Street to determine the feasibility of closing a lane(s) of traffic during construction. Using existing traffic count data, model requested areas and provide a memorandum summarizing the projected impacts during construction. Kimley-Horn will coordinate with the City of Durham Department of Transportation.
  2. As requested, provide detailed event management coordination plans for specific events at venues including DBAP, DPAC, and American Tobacco.
- E. Regulatory Permitting Fee – Cost Plus Max
1. Kimley-Horn will directly pay regulatory and environmental permitting fees that are normally associated with a project of this scope. All regulatory and permitting fees will be reimbursed to Kimley-Horn by the City of Durham. Any individual permitting fees that are equal to or greater than \$2,000 will be paid by check directly from the City of Durham. Note that Construction Drawing Submittals through the City of Durham are currently \$1,200 for plan and profile sheets.

### **Task 3 – Bid Phase Services**

- A. Bid Phase - Lump Sum
1. Obtain and evaluate bid / change order prices for revised lump sum unit costs, including traffic control, site restoration, etc.
  2. Conformed Documents - Prepare updated Contract Documents (drawings and specifications) to include change order information. The quantity of updated Contract Documents printed and delivered to Client or Contractor is not to exceed 10 sets.
  3. Construction Contract Execution – Assist the City with preparing and executing a change order to the Downtown Loop Waterline Replacement contract to include the Durham Police Headquarters Water Line Replacement construction documents. Documents, including insurance documents and bonds, will be reviewed for completeness and included in a digital version of the contract documents to route for City execution.

### **Task 4 – Design Phase Public Relations Services**

A. Design Phase Public Relations - Cost Plus Max

1. Follow and update as necessary the public outreach plan developed during the preliminary engineering phase.
2. Electronic Outreach – provide pertinent project information for the City’s website. The site would include project mission statement, purpose, schedule, mapping, project notes and milestones.
3. Develop and maintain an electronic database for project information distribution including City/agency contacts, business groups, interested individual property/business owners, and others.
4. Owner Outreach – meet individually with each known property owner/business owner along the project corridor identified during preliminary design. This meeting would be to establish contact and generally explain the project (the how and why). This meeting would be general in nature as the design would not be complete. This meeting would allow the Project Team and the City to hear any up front concerns and try to incorporate those into the design. This meeting will allow the Project Team and the City to direct owners to the website established above. Gather owner contact information, email and phone.
5. Police Headquarters Coordination – Coordinate design efforts, including schedules, service locations, hydrant / fire connection locations, proposed utility conflicts, etc. with the City of Durham’s Police Headquarters’ CMAR team.
6. DDI Meetings – Kimley-Horn will attend a downtown Durham business owners meeting with City staff. These are facilitated by Downtown Durham Incorporated and typically occur once a month. Kimley-Horn will assist the City staff in giving a brief explanation of where the project is in construction planning (5 to 10 minutes) and field any questions from business owners. Kimley-Horn would supply graphics for this meeting.
7. Ongoing Major Stakeholder Meetings:
  - a. GoTriangle (DATA)
  - b. Police Headquarters
  - c. PAC5
  - d. Large redevelopment sites
8. Project Notification – prior to the Contractor’s Notice to Proceed, place a notice in the local Durham newspaper and on the City’s website notifying the public of the upcoming project. Ideally this notice would take place at least 30 days in advance of the Contractor starting work.
9. Formally establish the construction phase public relations plan and contacts for project team including DWM staff responsible parties to be implemented as the project completes bidding.

**Task 5 – Sub-consultant Services**

A. Subsurface Utility Exploration – (GEL Geophysics, Inc.) – Cost Plus Max

1. The Scope of Services will include a Level B subsurface utility exploration (SUE) which includes the full width location from right-of-way to right-of-way in the area

where the actual waterline design will occur to identify and locate existing known underground utilities and determine potential utility conflicts.

2. It is anticipated that due to the location of this project a large quantity of higher level of SUE (Level A) will also be required where utility conflicts are identified. The SUE surveys of the proposed waterline routes will be performed by an SUE company who will coordinate with NC-One Call, the City of Durham, and other individual utilities to field mark the locations of all affected utilities.
3. Level A SUE efforts will consist of the vacuum excavation and surface restoration of up to 80 spot location test holes. *[Additional Level A SUE performed (more than the 80 spot location test holes under the Preliminary Engineering Services phase) during the Final Design Phase, can be performed under the Additional Services section of our Agreement].*
4. Where vacuum excavation is required in asphalt pavement, the pavement will be restored using cold patch asphalt or as required by NCDOT or the City of Durham. A report for each vacuum excavation location will be created and supplied to the City for waterline material verification.
5. Traffic control costs for all Level A and Level B SUE work are to be authorized by the City, prior to execution.

B. Survey – (Cooper and Associates, Inc.) – Cost Plus Max

1. Perform a design field survey which includes the full width survey from right-of-way to right-of-way in the area where the actual waterline design will occur. The project area is approximately 34.25 acres as shown in Figure 1. Field surveys of the selected alignment will be performed to collect topographic and planimetric data required for final design. The alignment survey will also include locations of existing utilities to be affected by the proposed facilities, setting of temporary bench marks (TBM's), and the locations of existing water meters, including surveys as needed for water meter replacement. In addition to waterline features, other existing utilities to be surveyed shall include sewer manholes, cleanouts, storm structures, storm pipes, and other private utilities.
2. Perform basic deed research in accordance with the requirements of Durham County and the City of Durham, as required to establish existing property lines and right-of-ways located immediately adjacent to the project corridor. Perform sufficient field surveys to delineate existing property lines and right-of-ways within the project limits. Existing property lines will be mapped based on existing property monuments and recorded deeds and plats.
3. Note: Under this Scope of Services it is not anticipated that the preparation and recording of easement maps, staking and flagging of easements, or the installation of iron pins as required for construction will be required for any part or parts of the project. However, based on previous experience with working in downtown Durham, if this effort is or becomes required, it will be defined as Additional Services to the scope of services for this project.

C. Geotechnical Engineering – (Falcon Engineering) – Cost Plus Max

1. Perform subsurface geotechnical investigations in the area where the actual waterline design will occur to determine subsurface conditions. Subsurface geotechnical investigations of the selected alignment will be performed to develop a geotechnical basis of design. Costs for subsurface geotechnical investigations shall not exceed the total cost indicated herein without the prior

written authorization of the City.

2. Perform Standard Penetration Test (SPT) borings at approximately 300-foot intervals along the final proposed alignment. A total of approximately seventy-five (75), 12-foot deep SPT borings will be drilled. Approximately four (4) borings will be extended to 20-feet deep on each side of crossings requiring boring and jacking or tunneling installations. All SPT borings will be drilled through partially weathered rock, if encountered above the desired boring depth. If solid rock is encountered in borings above the desired boring depth, the borings will be terminated. If rock is encountered in the bore and jack or tunneled borings, they will be cored to the required boring depth. SPT borings will be drilled in general accordance with ASTM D1586. Split spoon samples will be classified in general accordance with the Unified Soil Classification System (USCS).
3. Bulk samples will be obtained at every 1,500-feet in the upper 10-feet of the soil sub-grades for the purpose of determining the usability of the excavated soils as suitable backfill.
4. Traffic control costs for all geotechnical work are to be authorized by the City, prior to execution.

D. Data Gathering/Contractor Reviews – (Hollins Construction Services) – Cost Plus Max

1. Meter Audit and Valve Operations Reviews – Provide personnel to document field conditions of meters and assist the City operations staff in valve checks
2. Audit ramps for ADA Accessibility – Provide personnel to document field conditions and need for replacement of ramps within the project areas.
3. Provide constructability and construction sequence/duration reviews and assist with cost projections/takeoffs for OPCCs.

E. Sewer CCTV and Manhole Inspections – (Hydrostructures) – Cost Plus Max

1. Provide CCTV review and PACP coding for approximately 1,500 LF of existing 10-inch sanitary sewer along Roxboro Street between Dillard Ave and Lakewood Drive.
2. Provide manhole inspections for up to eight (8) manholes adjacent to the proposed CCTV sewer runs.
3. Traffic control costs for all Sewer CCTV work are to be authorized by the City, prior to execution. It is assumed that up to two (2) lane closures will be necessary to complete the work.

### **Task 6 - Additional Services**

Any services not specifically provided for in the above scope will be authorized by the Client in advanced and billed as additional services and performed at our then current hourly rates. Additional services we can include, but are not limited to, the following:

- A. Additional public outreach services required beyond the allowance set aside in the above scope of services. Kimley-Horn will only utilize this allowance as directed by the Client. An additional budget of \$10,000 is reserved for this purpose.
- B. Additional SUE, geotechnical, environmental, landscaping, structural, mechanical, electrical or other types of engineering not included specifically in the scope above. Such

instances can include additional unknown difficult subsurface conditions (i.e. subsurface concrete requiring removal, signal modifications, or site planning submittals). Kimley-Horn will only utilize this allowance as directed by the Client. An additional budget of \$40,000 as reserved for this purpose.

- C. Miscellaneous Engineering services and contingency for additional design. Kimley-Horn will only utilize this allowance as directed by the Client. An additional budget of \$10,000 is reserved for this purpose.
- D. Bidding Services and complete Contract Document preparations.
- E. City/County Planning or Board of Adjustment (BOA) submittals, reviews, correspondence, etc.
- F. ADA/PROWAG submittals, reviews, correspondence, etc. beyond handicap ramp reviews as stated above.
- G. Surveying services required to prepare and record easement maps.
- H. Surveying services required for Record Drawings (if provided by Kimley-Horn in-lieu of the contractor).
- I. Surveying services required for the delineation of species trees.
- J. Environmental or Arborist services required for the identification and delineation of species trees.
- K. Section 404 – Individual Permits (if necessary).
- L. Wetland/stream mitigation site selection and design (if necessary).
- M. SEPA Environmental Assessment (EA) or Categorical Exclusion.
- N. Cultural resources surveys (historical/archaeological).
- O. Protected or endangered species surveys.
- P. Provide quantitative analysis of indirect and cumulative impacts.
- Q. Attendance at additional public meetings such as public workshops and public hearings not specifically outlined.
- R. Attendance at or the preparation for additional public presentations to select Boards or City officials, not already included hereinabove.
- S. Environmental Impact Statements (EIS).
- T. HEC-Studies.
- U. Application fees for construction permits.
- V. Legal advertisement fee (usually billed directly to the client).
- W. Redesigns of facilities after approval of the 90% review submittal.
- X. Court appearances for litigation, or preparation of same.
- Y. All services associated with data collection and analysis for stream/wetland mapping, USGS 7.5 minute topographic mapping, Durham County soils survey, North Carolina Natural Heritage Program, US Fish and Wildlife Service database, State Historic Preservation Office preliminary field evaluations of the project corridor, determination if preparation of an Environmental Assessment or Categorical Exclusion is required, prepare Environmental Sections of the Preliminary Engineering Report, including

graphics. It is not anticipated that a State Environmental Policy Act Environmental Assessment will be required for this project. These services will include delineating (flagging) streams and wetlands.

- Z. Convert Plan and Profile drawings from a standard 20-foot/4-foot horizontal/vertical scale to any other scale.
- AA. All services associated with preparing Landscaping plans.
- BB. All services associated with Pedestrian Access Ramps beyond the assessments and replacements listed above.
- CC. Additional services not included in the above.

### **Responsibilities of Client**

In addition to other responsibilities set out in this Agreement, the Client shall:

- 1. Provide records for work orders or repairs within the project area.
- 2. Provide valve card information and applicable record drawings/GIS data for the project area.
- 3. Make available appropriate staff with background information on the project area.
- 4. Timely reviews of milestone submittals.

### **Schedule**

The work to be performed and the services to be rendered under this Scope of Services shall commence on a date as directed by the City of Durham.

## Fee and Expenses

Tasks are provided as listed in the above scope. Subtasks are grouped by project component or service and correspond to the sub tasks listed in the scope.

## Lump Sum

Kimley-Horn will perform the services in Tasks 1, 2, and 3 listed below for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Client.

<b>Task 1 – Preliminary Engineering.....</b>	<b>Task Total: \$244,500</b>
A.1-21 Preliminary Engineering .....	\$231,500
A.22 Sanitary Sewer Evaluation.....	\$13,000
<b>Task 2 - Final Design .....</b>	<b>Task Total: \$104,500</b>
A. Final Design .....	\$79,000
B. Traffic and Pedestrian Control .....	\$12,500
C. Regulatory Permitting.....	\$13,000
<b>Task 3 – Bid Phase Services .....</b>	<b>Task Total: \$6,500</b>
A. Bid Phase Services .....	\$6,500
<b>Total Lump Sum Fee .....</b>	<b>\$355,500</b>

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed.

### Cost Plus Max

Kimley-Horn will perform the services in Task 1, 2, 4, 5, and 6 listed below on a labor fee plus expense basis with the maximum fee shown below. Tasks include subconsultant costs and anticipated permitting/application fees, which will be billed to the Client at 1.12 times cost.

**Task 1 – Preliminary Design Services..... Task Total: \$62,000**  
     B. Public Involvement..... \$62,000

**Task 2 – Final Design Services..... Task Total: \$12,500**  
     D. Traffic / Event Management ..... \$9,500  
     E. Permitting Fees..... \$3,000

**Task 4 – Design Phase Public Relation Services..... Task Total: \$23,000**  
     A. Design Phase Public Outreach..... \$23,000

**Task 5 – Sub-consultant Services ..... Task Total: \$905,000**  
     A.1 Subsurface Utility Exploration Level B ..... \$264,000  
     A.2-4 Subsurface Utility Exploration Level A ..... \$86,000  
     A.5. Subsurface Utility Exploration Traffic Control ..... \$92,500  
     B. Survey ..... \$252,000  
     C.1-3. Geotechnical Engineering ..... \$126,500  
     C.4. Geotechnical Engineering Traffic Control..... \$35,500  
     D. Data Gathering / Contractor Reviews ..... \$33,000  
     E.1 Roxboro Street Sewer CCTV ..... \$11,500  
     E.2 Roxboro Street Sewer CCTV Traffic Control ..... \$4,000

**Task 6 – Additional Services ..... Task Total: \$60,000**  
     A. Additional Public Outreach ..... \$10,000  
     B. Additional SUE, Geotech, Survey, etc. Allowance..... \$40,000  
     C. Misc. Engineering Services / Contingency..... \$10,000

**Total Cost Plus Maximum Fee .....\$1,062,500**

Kimley-Horn shall not exceed the total maximum fee shown. Subtask amounts are provided for budgeting purposes only. Kimley-Horn may reallocate amounts among tasks only after receiving prior written authorization from the City.

Cost Plus labor fee will be billed according to the attached rate schedule. As for these tasks, direct reimbursable expenses such as express delivery services, fees, and other direct expenses will be billed at 1.12 times cost and are included in the fees above. A percentage of labor fee will be added to each invoice to cover certain other expenses as to these tasks such as telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by the Client at 1.12 times cost.

**Summary Table**

<b><u>Task</u></b>	<b><u>Lump Sum</u></b>	<b><u>Cost Plus Max</u></b>	<b><u>Total</u></b>
Task 1 – Preliminary Engineering	\$ 244,500.00	\$ 62,000.00	\$ 306,500.00
Task 2 – Final Design Services	\$ 104,500.00	\$ 12,500.00	\$ 117,000.00
Task 3 – Bid Phase Services	\$ 6,500.00	-	\$ 6,500.00
Task 4 – Design Phase Public Relations Services	-	\$ 23,000.00	\$ 23,000.00
Task 5 – Sub-consultant Services	-	\$ 905,000.00	\$ 905,000.00
Task 6 – Additional Services	-	\$ 60,000.00	\$ 60,000.00
<b>Total</b>	<b>\$ 355,500.00</b>	<b>\$ 1,062,500.00</b>	<b>\$ 1,418,000.00</b>

Reimbursable Expenses Schedule – Appendix 1 to Exhibit C

Current agreements for engineering services stipulate that the Reimbursable Expenses are subject to review and adjustment per Exhibit C. Reimbursable expenses for services performed during FY2016 (July 1, 2015 through June 31, 2016) are:

In-house duplicating, telephone calls, postage, and word processing computer time	Billed at an amount equal to 4.6% of the labor cost
8"x11" Copies (external printing)	at cost
24" X 36" Blue Print Copies(external printing)	at cost
Reproducible Copies (Mylar) (external printing)	at cost
Reproducible Copies (Paper) (external printing)	at cost
Mileage (employees auto)	\$0.575/mile
Resident Project Representative Equipment	at cost
Rental Car	at cost
Meals and Lodging	at cost

Standard Hourly Rates Schedule – Appendix 2 to Exhibit C

Current agreements for engineering services stipulate that the standard hourly rates are subject to review and adjustment per Exhibit C. Hourly rates for services performed during FY2016 (July 1, 2015 through June 31, 2016) are in dollars per hour as provided in the table below. Any increase in hourly billing rates after June 31, 2016 must be approved by the City.

<b>TITLE/CATEGORY</b>	<b>BILLING HOURLY RATE RANGE</b>
Senior Project Manager/Senior Associate/Vice President	<u>\$200 - \$245</u>
Professional VI	<u>\$170 - \$205</u>
Professional V	<u>\$145 - \$180</u>
Professional IV	<u>\$135 - \$155</u>
Professional III	<u>\$110 - \$135</u>
Professional II	<u>\$100 - \$130</u>
Professional I	<u>\$90 - \$110</u>
CADD Designer	<u>\$100 - \$135</u>
CADD Technician I	<u>\$75-\$100</u>
CADD Technician II	<u>\$95 - \$115</u>
Engineering Analysts	<u>\$80 - \$100</u>
Support Staff	<u>\$70 - \$85</u>
Resident Project Representative	<u>\$75 - \$95</u>